

CLAIMS

1. A pneumatic tire in which a tread surface thereof is divided into a central land portion between inner longitudinal grooves, intermediate land portions between the inner and outer longitudinal grooves, and shoulder land portions axially outside the outer longitudinal grooves, by being provided with the inner longitudinal grooves extending on both sides of a tire equator in a circumferential direction of the tire and the outer longitudinal grooves extending on both sides thereof in the circumferential direction of the tire, wherein

the central land portion and the intermediate land portions are formed into circumferential ribs which continuously extend in the circumferential direction of the tire, and on each of the shoulder land portions, blocks divided by lug grooves are arranged as a block row in the circumferential direction of the tire,

the intermediate land portion includes inclined grooves extending outward in the axial direction of the tire from an inner end of the inner longitudinal grooves away from a small distance L_a to an outer end which intersects with the outer longitudinal grooves while increasing an angle θ with respect to the circumferential direction of the tire, the angle θ in the inner end is 0 to 25° and the angle θ in the outer end is

60 to 80°,

a pitch P1 between the inclined grooves in the circumferential direction of the tire is greater than a pitch P2 between the lug grooves in the circumferential direction of the tire.

2. The pneumatic tire according to claim 1, wherein the outer end of the inclined grooves includes a chamfered portion from which a corner portion where an axially outer groove wall of the inclined grooves and an axially inner groove wall of the outer longitudinal grooves intersect with each other is removed.

3. The pneumatic tire according to claim 1 or 2, wherein the groove wall of the outer longitudinal grooves inside the axial direction of the tire is inclined at an angle α outside in the axial direction of the tire rearwardly in the tire rotation direction between the lug grooves which are adjacent to each other in the circumferential direction of the tire.

4. The pneumatic tire according to any one of claims 1 to 3, wherein the groove wall of the outer longitudinal grooves outside the axial direction of the tire is inclined at an angle β outside the axial direction of the tire rearwardly in the tire rotation direction between the lug grooves which are adjacent

to each other in the circumferential direction of the tire.

5. The pneumatic tire according to any one of claims 1 to 4, wherein the lug grooves are provided with a groove volume reducing portion in the vicinity of an intersecting portion between the lug grooves and the outer longitudinal grooves, the groove volume reducing portion reduces a groove volume of the lug grooves.

6. The pneumatic tire according to any one of claims 1 to 5, wherein a width of the lug grooves is reduced outward in the axial direction of the tire.

7. The pneumatic tire according to any one of claims 1 to 6, wherein a width W_i of the inner longitudinal grooves is 1.1 to 1.5 times a width W_o of the outer longitudinal grooves.

8. The pneumatic tire according to any one of claims 1 to 7, wherein a width W_y of the inclined grooves is smaller than a width W_o of the outer longitudinal grooves.

9. The pneumatic tire according to claim 8, wherein the width W_y of the inclined grooves is 40 to 60% of the width W_o of the outer longitudinal grooves.

10. The pneumatic tire according to any one of claims 1 to 9, wherein the small distance L_a is 3 to 10 mm.

11. The pneumatic tire according to any one of claims 1 to 10, wherein a width K_i of the central land portion is 5 to 20% of a tread-ground contact width TW .

12. The pneumatic tire according to any one of claims 1 to 11, wherein a width K_m of the intermediate land portion is 10 to 20% of a tread-ground contact width TW and is greater than the width K_i of the central land portion.

13. The pneumatic tire according to any one of claims 1 to 12, wherein a width K_o of the shoulder land portion is 10 to 30% of a tread-ground contact width TW and is greater than the width K_m of the intermediate land portion.

14. The pneumatic tire according to any one of claims 1 to 13, wherein the angles α and β are 1 to 6°.

15. The pneumatic tire according to claim 14, wherein the angle α and the angle β are equal to each other.

16. The pneumatic tire according to any one of claims 1 to 15, wherein a straight distance L_1 between the inner end

and the outer end of the inclined grooves 9 is 20 to 40% of a tread-ground contact width TW.

17. The pneumatic tire according to claim 15, wherein the groove volume reducing portion is a tie-rod which protrudes from a groove bottom.